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WEST Search History

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Set Name side by side	Query	Hit Count	Set Name result set
	DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR		
L4	L1 same (size or micron or diameter) and (bone) adj3 (graft or prosthesis or implant or fixative)	42	L4
L3	L2 and matrix same (polylactide or polyglycolide or polyanhydride or polyorthester or polyurethane or polyvinyl or pvp)	13	L3
L2	L1 and (bone) adj3 (graft or prosthesis or implant or fixative)	80	L2
L1	(bioactive or bioceramic) adj5 glass same (particulate or particle or microparticle)	196	L1

END OF SEARCH HISTORY

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     (FILE 'HOME' ENTERED AT 11:04:14 ON 20 NOV 2002)

     FILE 'CAPLUS, MEDLINE' ENTERED AT 11:04:30 ON 20 NOV 2002
L1         81592 SEA ABB=ON  PLU=ON  (IMPLANTS OR BIACTIVE COMPOSITE OR BONE
                 FIXATION OR BONE FIXTURES)
L2          2067 SEA ABB=ON  PLU=ON  L1 AND (BONE IMPLANT)
L3             0 SEA ABB=ON  PLU=ON  L2 AND (RESORBABLE POLYMER (3A) MATRIX)
L4             0 SEA ABB=ON  PLU=ON  L2 AND POLYMER (3A) MATRIX (P) (FIBRILLAR
                 OR ORIENTED)
L5             2 SEA ABB=ON  PLU=ON  L2 AND POLYMER (P) (FIBRILLAR OR ORIENTED)

L6            97 SEA ABB=ON  PLU=ON  L2 AND (BIOCERAMIC OR BIOGLASS)
L7             1 SEA ABB=ON  PLU=ON  L6 AND POLYMER (P) (FIBRILLAR OR ORIENTED)

               D L7 IBIB KWIC
L8             0 SEA ABB=ON  PLU=ON  L6 AND POLYMER MATRIX
L9             0 SEA ABB=ON  PLU=ON  L6 AND (POLYMER MATRIX)
L10            0 SEA ABB=ON  PLU=ON  L6 AND (FIBER OR FIBROUS) (P) POLYMER
L11            8 SEA ABB=ON  PLU=ON  L6 AND POLYMER
L12            8 SEA ABB=ON  PLU=ON  L11
L13            8 DUP REM L11 (0 DUPLICATES REMOVED)
               D L13 IBIB KWIC 1-
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L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1997:286407 CAPLUS
DOCUMENT NUMBER: 126:268549
TITLE: Osteosynthetic material, composited implant material, and process for preparing the same
INVENTOR(S): Shikinami, Yasuo; Okuno, Masaki
PATENT ASSIGNEE(S): Takiron Co., Ltd., Japan; Shikinami, Yasuo; Okuno, Masaki
SOURCE: PCT Int. Appl., 104 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9710010	A1	19970320	WO 1996-JP2642	19960913
W: AU, CA, CN, KR, NO, US				
RW: AT, CH, DE, DK, ES, FI, FR, GB, IT, NL, SE				
JP 09135892	A2	19970527	JP 1996-216874	19960731
JP 3215046	B2	20011002		
JP 09234242	A2	19970909	JP 1996-216875	19960731
JP 3215047	B2	20011002		
JP 09234243	A2	19970909	JP 1996-216876	19960731
JP 3239127	B2	20011217		
JP 11226111	A2	19990824	JP 1998-321413	19960731
JP 2002325832	A2	20021112	JP 2002-129488	19960731
CA 2205231	AA	19970320	CA 1996-2205231	19960913
AU 9669453	A1	19970401	AU 1996-69453	19960913
AU 715915	B2	20000210		
EP 795336	A1	19970917	EP 1996-930407	19960913
R: AT, CH, DE, DK, ES, FI, FR, GB, IT, LI, NL, SE				
CN 1168105	A	19971217	CN 1996-191435	19960913
NO 9702191	A	19970714	NO 1997-2191	19970513
US 5981619	A	19991109	US 1997-849422	19970514

PRIORITY APPLN. INFO.:

JP 1995-262353	A	19950914
JP 1995-351503	A	19951225
JP 1995-351504	A	19951225
JP 1996-216874	A	19960731
JP 1996-216875	A	19960731
JP 1996-216876	A	19960731
JP 1998-321413	A3	19960731
WO 1996-JP2642	W	19960913

AB The inventions relate to a high-bending-strength and high-d. osteosynthetic material and a high-strength implant material, comprising either a biodegradable and bioabsorbable cryst. thermoplastic **polymer** material or a composite material comprising the above **polymer** material and a **bioceramic** powder having a particle diam. of 0.2 to 50 .mu.m dispersed therein, wherein crystals of the **polymer** material are pressure-**oriented** essentially parallel to a plurality of ref. axes rather than uniaxially; and a process for prepg. the above materials by pressure orientation, comprising prepg. either a biodegradable and bioabsorbable cryst. thermoplastic **polymer** material or a mixt. comprising a dispersion of a biodegradable and bioabsorbable cryst. thermoplastic **polymer** material and a dispersion of a **bioceramic** powder, melt-forming the mixt. into a preform, and pressure filling the preform into a cavity of a closed mold to prep. an **oriented** form. This process enables the prepn. of ideal biomaterials, i.e., an osteosynthetic material and an implant material comprising an **oriented** form with crystals **oriented** parallel to a plurality of ref. axes and

possessing low anisotropy, high denseness, and high strength, which have suitable hydrolyzability, can retain satisfactory strength for a period of time necessary for bone coaptation and, after the recovery of the fractured portion, is degraded and adsorbed at such a rate as will not cause any inflammation, thus eliminating the need to conduct reoperation.

ST osteosynthetic composited implant material; thermoplastic **bioceramic** prosthetic implant

IT **Bone**
Bone
(**implant**; osteosynthetic material, composited implant material, and process for prepg. the same)

IT Dental materials and appliances
Prosthetic materials and Prosthetics
(**implants**; osteosynthetic material, composited implant material, and process for prepg. the same)

=>

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YOU HAVE REQUESTED DATA FROM 8 ANSWERS - CONTINUE? Y/(N):y

L13 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2001:323651 CAPLUS
DOCUMENT NUMBER: 135:157450
TITLE: Achievements in ceramic biomaterials
AUTHOR(S): Veresov, A. G.; Putlyaev, V. I.; Tret'yakov, Yu. D.
CORPORATE SOURCE: Fak. Nauk o Mater., MGU im. M. V. Lomonosova, Moscow, 119899, Russia
SOURCE: Rossiiskii Khimicheskii Zhurnal (2000), 44(6), 32-45
CODEN: RKZHEZ; ISSN: 1024-6215
PUBLISHER: Rossiiskoe Khimicheskoe Obshchestvo im. D. I. Mendeleeva
DOCUMENT TYPE: Journal; General Review
LANGUAGE: Russian
AB A review with 96 refs. providing a brief description of the properties and physiol. of bone, calcium phosphate biomaterials based on CaO-P2O5-H2O systems, producing hydroxyapatite powders, **bioceramics** based on "pure" hydroxyapatite, dense hydroxyapatite ceramics, porous hydroxyapatite ceramics, ceramic composites, glass ceramic materials based on hydroxyapatite, hydroxyapatite coatings for metals, hydroxyapatite/ **polymer** composites, calcium phosphate bone cements, and prospects for new developments in the field of **bone implants**.
ST review **bone implant bioceramic** material
IT **Bone**
(**implant**; achievements in ceramic biomaterials)

L13 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:319273 CAPLUS
DOCUMENT NUMBER: 133:256717
TITLE: Collagen-**polymer**-hydroxyapatite composite materials
AUTHOR(S): Andronescu, Ecaterina; Momete, Daniela Cristina; Vasilescu, D. S.
CORPORATE SOURCE: Department of Industrial Chemistry, University "Politechnica" of Bucharest, Bucharest, Rom.
SOURCE: Silicates Industriels (1999), 64(11-12), 187-190
CODEN: SIINAT; ISSN: 0037-5225
PUBLISHER: Silicates Industriels
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
TI Collagen-**polymer**-hydroxyapatite composite materials
AB The design of ceramic-**polymer** composite offers the possibility of combining the advantageous properties of **bioceramics** like hydroxyapatite with the molding capacity of biocompatible polymeric systems. To improve the synthetic **bone implant** material, hydroxyapatite coated with collagen, acrylamide crosslinked with bis-methylene acrylamide was produced. A new, rigid composite material was obtained by mixing all the above components in soln. and curing it. The usefulness of this new material was also evaluated.
ST collagen **polymer** hydroxyapatite composite
IT Prosthetic materials and Prosthetics
Prosthetic materials and Prosthetics
(ceramic, **implants**; collagen-**polymer**-hydroxyapatite composite materials)
IT Compressive strength
(collagen-**polymer**-hydroxyapatite composite materials)
IT Collagens, biological studies
RL: PEP (Physical, engineering or chemical process); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(collagen-**polymer**-hydroxyapatite composite materials)
IT Prosthetic materials and Prosthetics
(composites; collagen-**polymer**-hydroxyapatite composite materials)
IT Ceramics
(prosthetic **implants**; collagen-**polymer**-hydroxyapatite composite materials)
IT 10124-37-5, Calcium nitrate 25034-58-6, Acrylamide-methylenebisacrylamide copolymer
RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(collagen-**polymer**-hydroxyapatite composite materials)
IT 1306-06-5, Hydroxyapatite
RL: PEP (Physical, engineering or chemical process); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(collagen-**polymer**-hydroxyapatite composite materials)
IT 7783-28-0, Diammonium phosphate
RL: RCT (Reactant); RACT (Reactant or reagent)
(collagen-**polymer**-hydroxyapatite composite materials)

L13 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:193594 CAPLUS
DOCUMENT NUMBER: 132:241729
TITLE: Bioactive coatings on **polymers**
AUTHOR(S): Meyer, M.; Schubert, H.
CORPORATE SOURCE: Institut fur Nichtmetallische Werkstoffe, Berlin, Germany
SOURCE: Werkstoffwoche '98, Band VIII: Symposium 10, Polymere; Symposium 14, Simulation Polymere, Munich, Sept., 1998 (1999), Meeting Date 1998, 177-180. Editor(s): Michaeli, Walter. Wiley-VCH Verlag GmbH: Weinheim, Germany.
CODEN: 68SRAZ
DOCUMENT TYPE: Conference; General Review
LANGUAGE: German
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

TI Bioactive coatings on **polymers**
AB A review with 2 refs., describing medical application of **bioceramics**, Ca phosphate and oxide ceramics (Al, Zr) as **bone implants**, silicone **implants** for smooth tissues, and coating of silicone with bioactive hydroxylapatite or tricalcium phosphate by radio frequency glow discharge.
ST review **polymer** bioactive coating silicone implant
IT Coating materials
(bioactive coatings on **polymers**)
IT **Polymers**, biological studies
Polysiloxanes, biological studies
RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(bioactive coatings on **polymers**)
IT Ceramics
(biocompatible; bioactive coatings on **polymers**)
IT Prosthetic materials and Prosthetics
(**implants**; bioactive coatings on **polymers**)

L13 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1998:706058 CAPLUS
DOCUMENT NUMBER: 129:321234
TITLE: Biodegradable implant material comprising bioactive ceramic
INVENTOR(S): Boyan, Barbara D.; Niederauer, Gabriele; Kieswetter,

Kristine; Leatherbury, Neil C.; Greenspan, David C.
PATENT ASSIGNEE(S): USA
SOURCE: PCT Int. Appl., 44 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9846164	A1	19981022	WO 1998-US7446	19980413
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5977204	A	19991102	US 1997-838921	19970411
AU 9869702	A1	19981111	AU 1998-69702	19980413
EP 1018978	A1	20000719	EP 1998-915544	19980413
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002508677	T2	20020319	JP 1998-544187	19980413

PRIORITY APPLN. INFO.: US 1997-838921 A 19970411
WO 1998-US7446 W 19980413

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB Biodegradable polymeric therapeutic implant materials incorporating bioactive ceramics such as **Bioglass** are provided. These **implants** provide increased mech. properties and pH control, enabling the use of these materials to design porous and nonporous therapeutic **implants** used as cell scaffolds for healing of tissue defects or fixation devices, having desired degrdn. times, mech. properties, elasticity and biocompatibility.

ST **bone implant polymer** ceramic biodegradable; prosthetic implant ceramic biodegradable

IT **Polymers**, biological studies
RL: DEV (Device component use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(biodegradable implant material comprising bioactive ceramic)

IT Prosthetic materials and Prosthetics
(ceramic, **implants**; biodegradable implant material comprising bioactive ceramic)

IT **Bone**
(**implant**; biodegradable implant material comprising bioactive ceramic)

IT Prosthetic materials and Prosthetics
(**implants**; biodegradable implant material comprising bioactive ceramic)

IT Ceramics
(prosthetic **implants**; biodegradable implant material comprising bioactive ceramic)

IT 34346-01-5, D,L-Lactic acid-glycolic acid copolymer
RL: DEV (Device component use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(**Bioglass** composites; biodegradable implant material comprising bioactive ceramic)

L13 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1999:94107 CAPLUS

DOCUMENT NUMBER: 130:301647
TITLE: Processing of **bioceramic implants** via fused deposition process
AUTHOR(S): Bose, Susmita; Avila, Marisol; Bandyopadhyay, Amit
CORPORATE SOURCE: School of Mechanical and Materials Engineering, Washington State University, Pullman, WA, 99164-2920, USA
SOURCE: Solid Freeform Fabrication Symposium Proceedings (1998) 629-636
CODEN: SFFPF4; ISSN: 1053-2153
PUBLISHER: University of Texas at Austin
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

TI Processing of **bioceramic implants** via fused deposition process

AB Porous ceramic structures have long been a subject of investigation as bone substitute. Most of these porous structures are typically made by techniques that result randomly arranged pores with a wide variety of pore sizes. In recent years, SFF methods are being used for the fabrication of porous **bioceramic implants**. Porous ceramic structures were fabricated using indirect route where a polymeric mold is first created via fused deposition process. The mold was then infiltrated with ceramic slurry, dried and then subjected to a binder burn out and sintering cycle. In this paper, processing of 3D honeycomb porous alumina ceramic structures and some initial mech. properties for **bone implants** will be discussed.

ST processing **bioceramic** implant fused deposition; ceramic implant fused deposition processing

IT Bone
(artificial; processing of **bioceramic implants** via fused deposition process)

IT Prosthetic materials and Prosthetics
(ceramic, **implants**; processing of **bioceramic implants** via fused deposition process)

IT Shear
Sintering
Viscosity
(processing of **bioceramic implants** via fused deposition process)

IT **Polymers**, biological studies
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(processing of **bioceramic implants** via fused deposition process)

IT Ceramics
(prosthetic **implants**; processing of **bioceramic implants** via fused deposition process)

IT 1309-48-4, Magnesium oxide (MgO), biological studies 1344-28-1, Alumina, biological studies
RL: DEV (Device component use); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(processing of **bioceramic implants** via fused deposition process)

L13 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1997:286407 CAPLUS
DOCUMENT NUMBER: 126:268549
TITLE: Osteosynthetic material, composited implant material, and process for preparing the same
INVENTOR(S): Shikinami, Yasuo; Okuno, Masaki

PATENT ASSIGNEE(S): Takiron Co., Ltd., Japan; Shikinami, Yasuo; Okuno, Masaki
SOURCE: PCT Int. Appl., 104 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9710010	A1	19970320	WO 1996-JP2642	19960913
W: AU, CA, CN, KR, NO, US				
RW: AT, CH, DE, DK, ES, FI, FR, GB, IT, NL, SE				
JP 09135892	A2	19970527	JP 1996-216874	19960731
JP 3215046	B2	20011002		
JP 09234242	A2	19970909	JP 1996-216875	19960731
JP 3215047	B2	20011002		
JP 09234243	A2	19970909	JP 1996-216876	19960731
JP 3239127	B2	20011217		
JP 11226111	A2	19990824	JP 1998-321413	19960731
JP 2002325832	A2	20021112	JP 2002-129488	19960731
CA 2205231	AA	19970320	CA 1996-2205231	19960913
AU 9669453	A1	19970401	AU 1996-69453	19960913
AU 715915	B2	20000210		
EP 795336	A1	19970917	EP 1996-930407	19960913
R: AT, CH, DE, DK, ES, FI, FR, GB, IT, LI, NL, SE				
CN 1168105	A	19971217	CN 1996-191435	19960913
NO 9702191	A	19970714	NO 1997-2191	19970513
US 5981619	A	19991109	US 1997-849422	19970514

PRIORITY APPLN. INFO.:

JP 1995-262353	A	19950914
JP 1995-351503	A	19951225
JP 1995-351504	A	19951225
JP 1996-216874	A	19960731
JP 1996-216875	A	19960731
JP 1996-216876	A	19960731
JP 1998-321413	A3	19960731
WO 1996-JP2642	W	19960913

AB The inventions relate to a high-bending-strength and high-d. osteosynthetic material and a high-strength implant material, comprising either a biodegradable and bioabsorbable cryst. thermoplastic **polymer** material or a composite material comprising the above **polymer** material and a **bioceramic** powder having a particle diam. of 0.2 to 50 .mu.m dispersed therein, wherein crystals of the **polymer** material are pressure-oriented essentially parallel to a plurality of ref. axes rather than uniaxially; and a process for prepg. the above materials by pressure orientation, comprising prepg. either a biodegradable and bioabsorbable cryst. thermoplastic **polymer** material or a mixt. comprising a dispersion of a biodegradable and bioabsorbable cryst. thermoplastic **polymer** material and a dispersion of a **bioceramic** powder, melt-forming the mixt. into a preform, and pressure filling the preform into a cavity of a closed mold to prep. an oriented form. This process enables the prepn. of ideal biomaterials, i.e., an osteosynthetic material and an implant material comprising an oriented form with crystals oriented parallel to a plurality of ref. axes and possessing low anisotropy, high denseness, and high strength, which have suitable hydrolyzability, can retain satisfactory strength for a period of time necessary for bone coaptation and, after the recovery of the fractured portion, is degraded and adsorbed at such a rate as will not cause any inflammation, thus eliminating the need to conduct reoperation.

ST osteosynthetic composited implant material; thermoplastic **bioceramic** prosthetic implant

IT **Bone**
Bone
(**implant**; osteosynthetic material, composited implant material, and process for prepg. the same)
IT Dental materials and appliances
Prosthetic materials and Prosthetics
(**implants**; osteosynthetic material, composited implant material, and process for prepg. the same)
IT 1306-01-0, Tetracalcium phosphate 1306-06-5, Hydroxyapatite 7757-93-9, Dicalcium phosphate 7758-87-4, Tricalcium phosphate 13767-12-9, Octacalcium phosphate 26100-51-6, Lactic acid **polymer** 34346-01-5, Lactic acid-glycolic acid copolymer
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(osteosynthetic material, composited implant material, and process for prepg. the same)

L13 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1999:516451 CAPLUS
DOCUMENT NUMBER: 131:262576
TITLE: A **polymer-bioceramic** composite for filling bone defects
AUTHOR(S): Rozhnova, R. A.; Galatenko, N. A.; Khrinov'skii, V. O.; Gripenko, V. P.; Lebedev, S. V.
CORPORATE SOURCE: Inst. Khim. Vysokomol. Spoluk, Kiev, Ukraine
SOURCE: Dopovidi Natsional'noi Akademii Nauk Ukraini (1997), (12), 146-149
CODEN: DNAUFL; ISSN: 1025-6415
PUBLISHER: Prezidiya Natsional'noi Akademii Nauk Ukraini
DOCUMENT TYPE: Journal
LANGUAGE: Ukrainian
TI A **polymer-bioceramic** composite for filling bone defects
AB **Polymer** compns. based on polyurethane-contg. hydroxyapatite and the immunomodulator levamisole are developed. Physicochemical properties of the compns. obtained indicate the possibility of their use as **implants** for bone tissues.
ST **bone implant polymer** composite **bioceramic**
IT Ceramics
(biocompatible; **polymer-bioceramic** composite for filling bone defects)
IT Polyurethanes, biological studies
RL: PEP (Physical, engineering or chemical process); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(composites; **polymer-bioceramic** composite for filling bone defects)
IT **Bone**
(**implant**; **polymer-bioceramic** composite for filling bone defects)
IT Ceramic composites
(**polymer-bioceramic** composite for filling bone defects)
IT 1306-06-5D, Hydroxyapatite, composites
RL: PEP (Physical, engineering or chemical process); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(**polymer-bioceramic** composite for filling bone defects)

L13 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1995:618183 CAPLUS
DOCUMENT NUMBER: 123:17977
TITLE: **implants** containing recombinant human bone

morphogenetic protein (rhBMP) for promoting osteogenesis

INVENTOR(S): Takaoka, Kunio; Myamoto, Nobuhira
PATENT ASSIGNEE(S): Yamanouchi Pharma Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07088174	A2	19950404	JP 1993-264230	19930928

TI **implants** containing recombinant human bone morphogenetic protein (rhBMP) for promoting osteogenesis

AB **Implants** for promoting osteogenesis are prepd. contg. at least (1) atelocollagen, **polymers** or copolymers of lactic acid and/or glycolic acid, or block copolymer of polyethylene glycol and the **polymer** or copolymer, and (2) recombinant human bone morphogenetic protein (rhBMP).

IT Glass fibers, biological studies
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(CPSA; **implants** contg. recombinant human bone none morphogenetic protein (rhBMP) for promoting osteogenesis)

IT Bone
(formation; **implants** contg. recombinant human bone none morphogenetic protein (rhBMP) for promoting osteogenesis)

IT Glass ceramics
(**implants** contg. recombinant human bone none morphogenetic protein (rhBMP) for promoting osteogenesis)

IT Collagens, biological studies
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(atelo-, **implants** contg. recombinant human bone none morphogenetic protein (rhBMP) for promoting osteogenesis)

IT Glass, oxide
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(beads, porous, **implants** contg. recombinant human bone none morphogenetic protein (rhBMP) for promoting osteogenesis)

IT Animal growth regulators
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(bone morphogenetic protein 2, **implants** contg. recombinant human bone none morphogenetic protein (rhBMP) for promoting osteogenesis)

IT Animal growth regulators
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(bone morphogenetic protein 2B, **implants** contg. recombinant human bone none morphogenetic protein (rhBMP) for promoting osteogenesis)

IT Animal growth regulators
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(bone morphogenetic protein 3, **implants** contg. recombinant human bone none morphogenetic protein (rhBMP) for promoting osteogenesis)

IT Animal growth regulators
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(bone morphogenetic protein 5, **implants** contg. recombinant human bone none morphogenetic protein (rhBMP) for promoting osteogenesis)

IT Animal growth regulators
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(bone morphogenetic protein 8, **implants** contg. recombinant human bone none morphogenetic protein (rhBMP) for promoting osteogenesis)

IT Animal growth regulators
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(bone morphogenetic proteins, **implants** contg. recombinant human bone none morphogenetic protein (rhBMP) for promoting osteogenesis)

IT **Bone**
(**implant**, **implants** contg. recombinant human bone none morphogenetic protein (rhBMP) for promoting osteogenesis)

IT Prosthetic materials and Prosthetics
(**implants**, **implants** contg. recombinant human bone none morphogenetic protein (rhBMP) for promoting osteogenesis)

IT 7631-86-9, Silica, biological studies
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Carbonated or nitrated; **implants** contg. recombinant human bone none morphogenetic protein (rhBMP) for promoting osteogenesis)

IT 50-21-5D, Lactic acid, **polymers** or copolymers 79-14-1, Glycolic acid, biological studies 107-21-1D, Ethylene glycol, **polymers** or copolymers 1306-06-5, Hydroxyapatite 1314-23-4, Zirconia, biological studies 1317-82-4, Sapphire 1344-28-1, Alumina, biological studies 7440-44-0, Carbon, biological studies 7758-87-4, Tricalcium phosphate 11114-92-4 12597-68-1, Stainless steel, biological studies 13463-67-7, Titania, biological studies 80294-22-0, Ceravital 117563-96-9 125199-10-2, **Bioceramics**
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(**implants** contg. recombinant human bone none morphogenetic protein (rhBMP) for promoting osteogenesis)

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